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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/791,651	03/02/2004	Tetsuya Otsuki	93191-000714	2702	
27572	7590 10/31/2006		EXAM	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			TRINH, I	TRINH, MINH N	
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER	
2200			3729		
			DATE MAILED: 10/31/2000	DATE MAILED: 10/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		10/791,651	OTSUKI ET AL.	OTSUKI ET AL.				
		Examiner	Art Unit					
		Minh Trinh	3729					
Period fo	The MAILING DATE of this communication Reply	on appears on the cover s	sheet with the correspondence a	nddress				
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR INCHEVER IS LONGER, FROM THE MAIL! Insions of time may be available under the provisions of 37 or SIX (6) MONTHS from the mailing date of this communicat period for reply is specified above, the maximum statutory te to reply within the set or extended period for reply will, by eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS CON CFR 1.136(a). In no event, however ion. period will apply and will expire SI y statute, cause the application to the	MMUNICATION. er, may a reply be timely filed IX (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133).	· •				
Status								
1) 🛛	Responsive to communication(s) filed on	25 August 2006.						
	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for a	eation is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>5-15</u> is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-4</u> is/are rejected.							
)☐ Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	and/or election requirem	ient.					
Applicati	on Papers			•				
9)[The specification is objected to by the Ex	aminer.	·					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by	the Examiner. Note the a	attached Office Action or form F	PTO-152.				
Priority u	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for fo ☑ All b)☐ Some * c)☐ None of:	oreign priority under 35 l	J.S.C. § 119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the	e priority documents hav	e been received in this Nationa	al Stage				
•	application from the International E							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notic	e of References Cited (PTO-892)	4) 🔲 Ir	nterview Summary (PTO-413)					
	e of Draftsperson's Patent Drawing Review (PTO-9- nation Disclosure Statement(s) (PTO/SB/08)	⁴⁸⁾ 5) □ N	aper No(s)/Mail Date lotice of Informal Patent Application					
	Paper No(s)/Mail Date <u>2/27/06, 9/22/05.</u> 6) Other:							

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of elected species IIA method invention readable on claims 1-4 in the reply filed on 8/25/06 is acknowledged.

However, upon further review of elected claims 1-7, only claims 1-4 are readable on the elected species IIA, claims 8-12 are drawn to a nonelected species invention other than the elected one.

Further, Applicant's traverse of the requirement for election of species is noted, asserting that there is no serious burden on the examiner to examine all claims. The traverse has been carefully considered, but is not persuasive because the reasons proffered do not appear germane to the propriety of a requirement for election of species. The sections of the manual cited relate to restriction, not a requirement for election of species, which is clearly covered in section 808.01(a). Once the claims are determined to be directed to mutually patentable inventions and the Office requires an election of species, a persuasive traverse is an admission on the record that applicant does not find the claimed species are patentable, one over the other. Having not done so, the reasons presented are not persuasive. Applicant is not entitled to examination of multiple independent inventions in one application. Moreover, examination of the independent inventions herein would clearly present a burden because the searches will not be coextensive. Accordingly, the requirement is repeated and made FINAL.

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2. Thus, Claims 5-15 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 8/25/06.

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An Office Action on the merit of claims 1-4 as follows:

Double Patenting

- 3. Claims 1-4 of this application conflict with claims 1-5 of Application No. 10/792,266. 37 CFR 1.78(b) provides that when two or more applications filed by the same applicant contain conflicting claims, elimination of such claims from all but one application may be required in the absence of good and sufficient reason for their retention during pendency in more than one application. Applicant is required to either cancel the conflicting claims from all but one application or maintain a clear line of demarcation between the applications. See MPEP § 822.
- 4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory

double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

At least Claims 1-4 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-5 of copending Application No. 10/792,266. Although the conflicting claims are not identical, they are not patentably distinct from each other because the subject matter claimed in the instant application is fully claimed in the application and is covered by the copending Application since the copending Application and the application are claiming common subject matter, as follows:

The copending application claims a method of manufacturing a wiring board, comprising: softening a receiving layer formed of a thermoplastic resin by applying heat; forming an interconnect layer on the receiving layer which is softened by the application of heat using a solvent containing conductive particles; and causing the conductive particles to be bonded together by heating the interconnect layer (compare claim 1).

As applied to claims 2-4 (compare claims 2-5) of the copending application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-3 are rejected under 35 U.S.C. 102(a) as being anticipated by WO 02/080637 or PCT /US02/10208 publication on 10/10/2002.

The WO 02/080637 discloses a method of manufacturing comprising: softening a receiving layer formed of a thermoplastic resin by applying heat (see abstract); forming an interconnect layer as trace 220 on the receiving layer which is softened by the application of heat using a solvent containing conductive particles; and causing the conductive particles to be bonded together by heating the interconnect layer (see Fig. 4B, and the discussion set forth in the abstract, lines 1-5).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 02/080637 in view of Horiuchi (6,469,260).

The WO 02/080637 does not teach the removing of the base as recited in claim 4, the Horiuchi discloses such (see process presented in Figs. 5A-D, including the removing of the base 31). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to employ the Horiuchi's teaching as described above onto the method of the WO 02/080637 in order to simplify the process by using the available concepts the motivation for the combination can be obtain from col. 7, lines 20-24 of the Horiuchi reference.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Trinh whose telephone number is (571) 272-4569. The examiner can normally be reached on Monday -Thursday 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (571) 272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mt 10/26/06

> MINHTRINH PRIMARY EXAMINER